



**Dampney**

**OEM**

**Protective Coatings**

## **Thurmalox 8704K VOC Compliant Air Dry Heat Resistant Coating Single Component Aluminum**

### **Technical Data**

<b>Characteristic</b>	<b>8704K</b>
Color	Aluminum
Finish	Semi-gloss
Number of Components	One
Volume Solids	19% (+/-2%)
Weight per gallon	8.1 lbs. (3.95 kg.)
Temperature Resistance	
Continuous	1000°F (538°C)
Dry Film Thickness per coat	1.0-2.0 mils (25-50µm)
Wet Film Thickness per coat	6.0-11.0 Mil (150-275µm)
Theoretical Coverage at 2.0 mils (50 µm) DFT	152 sq/ft per gallon (3.74 m <sup>2</sup> /liter)
Dry Time @ 50%RH 70°F(21°C)	
To Touch	45 minutes
To Recoat	2 hours
To Ship	18-24 hours
Shelf Life	One Year
VOC	3.48 lbs./gal (417.6 g/l)

### **Description**

Thurmalox 8704K is a single component, high temperature, VOC compliant, aluminum coating for use on OEM equipment subjected to ambient or elevated temperatures. Thurmalox 8704K is a direct to metal finish system providing outstanding adhesion, film integrity, weathering and thermal shock resistance when applied to properly prepared surfaces.

### **Recommended Uses**

- Valves, Pumps, Piping
- Engines, Manifolds, Exhausts and Silencers
- Furnaces
- Vessels

### **Not Recommended For**

- Immersion or insulated service conditions
- Application to galvanized or zinc primed surfaces

### **Features**

- Single Component
- Brilliant Aluminum Finish
- Excellent for ambient or high temperature applications
- Does not require a heat cure

### **Limitations**

Do not apply at temperatures below 50°F (10°C) or under conditions where temperatures may drop below 50°F (10°C) within 24 hours after application. Do not apply Thurmalox 8704K aluminum when the surface temperature is less than 5°F (2°C) above the dew point. Do not apply this coating when the humidity is above 80% or below 10%.

### **Substrates**

Clean, smooth steel, blasted steel, phosphatized steel, and primed steel.

### **Surface Preparation**

Surfaces must be clean and dry. Remove all oil, grease, soil, drawing and cutting compounds, and other foreign matter detrimental to the adhesion of this coating as outlined in SSPC-SP1 "Solvent Cleaning".

All carbon steel and cast iron surfaces are to be prepared following "SSPC-SP 10 (NACE 2) Near White Blast Cleaning Standard" with a sharp angular blast profile of 1.5-2.0 mils (35-50µm).

### **Mixing**

Thurmalox 8704K is a single component coating that should be mixed thoroughly using an explosion proof, air driven mixer. Keep container closed when not in use.

### **Thinning**

Product is supplied in a ready to spray consistency; no thinning is necessary.

## Application Equipment

Brush application: Touch-up only

Spray equipment: A wide variety of spray equipment can be used, such as airless, conventional, or HVLP.

## Application

Thurmalox 8704K should be applied using a 50% overlap and cross-hatch spray method to achieve a proper dry film thickness.

## Dry Time 70°F (21°C) 50% RH

Thurmalox 8704K will dry to touch in 45 minutes at 70°F (21°C) and 50% RH. Cure time will vary with type of heat used and substrate mass.

## Cleanup

Thoroughly flush spray equipment and hose immediately after use with Dampney 100 Thinner.

## KEEP OUT OF THE REACH OF CHILDREN

Made in the USA.

## Precautionary Information

### WARNING: Flammable liquid and Vapor

Inhalation of vapor or spray mist can cause headache or nausea and irritation of the nose, throat and lungs. **Hazards** Keep away from heat, and flame. Do not breathe vapors or spray mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation during mixing and application. Respiratory protection is not required if good ventilation is maintained. Wear an appropriate, properly fitted organic vapor cartridge-type respirator (NIOSH approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Wash thoroughly after handling. Wear protective gloves, chemical safety goggles and impervious protective clothing. Use skin cream. In confined spaces it is required to use a positive pressure supplied-air respirator (NIOSH approved). Observe all safety precautions and follow procedures described in OSHA regulations.

See Material Safety Data Sheet (MSDS) for complete precautionary information.

If instructions and warnings cannot be strictly followed, do not use this product.

## FOR INDUSTRIAL USE ONLY

**Warranty** Dampney protective coating products are expressly warranted to meet applicable technical and quality specifications. The Technical data contained herein are accurate at the date of issuance but are subjected to change without prior notification. No warranty of current accuracy is hereby given or implied. User must contact Dampney to verify correctness before ordering. Dampney assumes no responsibility for coverage, performance or injuries resulting from handling or use and LIABILITY, IF ANY, SHALL BE LIMITED TO PRODUCT REPLACEMENT. In no event will Dampney be responsible for consequential damages, except insofar as mandated by law. Dampney DISCLAIMS ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.